

<150> PCT/US00/20710
 <151> 2000-07-28

<150> PCT/US00/23328
 <151> 2000-08-24

<150> PCT/US00/32678
 <151> 2000-12-01

<150> PCT/US00/34956
 <151> 2000-12-20

<150> PCT/US01/06520
 <151> 2001-02-28

<150> PCT/US01/09552
 <151> 2001-03-22

<150> PCT/US01/17092
 <151> 2001-05-25

<150> PCT/US01/17800
 <151> 2001-06-01

<150> PCT/US01/19692
 <151> 2001-06-20

<150> PCT/US01/21066
 <151> 2001-06-29

<150> PCT/US01/21735
 <151> 2001-07-09

<160> 624

<210> 1
 <211> 1743
 <212> DNA
 <213> Homo sapiens

<400> 1
 ccaggtccaa ctgcacctcg gttctatcga ttgaattccc cggggatcct 50
 ctagagatcc ctgcacctcg acccacgcgt ccgccaagct ggccctgcac 100
 ggctgcaagg gaggtcctg tggacaggcc aggcaggtgg gcctcaggag 150
 gtgcctccag gcggccagtg ggctgaggg cccagcaagg gctaggggtcc 200
 atctccagtc ccaggacaca gcagcggcca ccatggccac gcctggggtc 250
 cagcagcatc agcagccccc aggaccgggg gaggcacagg tggcccccac 300
 caccgggagg agcagctcct gcccctgtcc gggggatgac tgattctcct 350
 ccgccaggcc acccagagga gaaggccacc ccgcctggag gcacaggcca 400
 tgagggggctc tcaggaggtg ctgctgatgt ggcttctggt gttggcagtg 450

ggcgccacag agcacgccta ccggcccggc cgttaggggtg tgtgctgtcc 500
 cgggctcagc gggaccctgt ctccgagtcg ttcgtgcagc gtgtgtacca 550
 gcccttcctc accacctgcg acgggcaccg ggcctgcagc acctaccgaa 600
 ccatttatag gaccgcctac cgccgcagcc ctgggctggc ccctgccagg 650
 cctcgctacg cgtgctgccc cggctggaag aggaccagcg ggcttcctgg 700
 ggcctgtgga gcagcaatat gccagccgcc atgccggaac ggaggagact 750
 gtgtccagcc tggccgctgc cgctgccctg caggatggcg gggtgacact 800
 tgccagtcag atgtggatga atgcagtgtc aggagggggcg gctgtcccca 850
 gcgctgcata aacaccggcg gcagttactg gtgccagtgt tgggagggggc 900
 acagcctgtc tgcagacggt aactctgtg tgcccaaggg agggccccc 950
 aggggtggccc ccaaccggac aggagtggac agtgcaatga aggaagaagt 1000
 gcagaggctg cagtcacagg tggacctgct ggaggagaag ctgcagctgg 1050
 tgctggcccc actgcacagc ctggcctcgc aggactgga gcatgggctc 1100
 ccggaccccg gcagcctcct ggtgcactcc ttccagcagc tcggcccgcat 1150
 cgactccctg agcgagcaga tttccttcct ggaggagcag ctggggctcct 1200
 gctcctgcaa gaaagactcg tgactgcca gcgcccagg ctggactgag 1250
 cccctcacgc cgccctgcag ccccatgcc cctgcccac atgctggggg 1300
 tccagaagcc acctcggggg gactgagcgg aaggccaggc agggccttcc 1350
 tccttttctc cctcccttcc octcgggagg gtccccagac cctggcatgg 1400
 gatgggctgg gatTTTTTTT gtgaatccac ccctggctac cccaccctg 1450
 gttaccccaa cggcatccca aggccagggtg ggccctcagc tgagggaagg 1500
 tacgagttcc cctgctggag cctgggaccc atggcacagg ccaggcagcc 1550
 cggaggctgg gtggggcctc agtgggggct gctgcctgac cccagcaca 1600
 ataaaaatga aacgtgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1650
 aaaaaaagg gcggccgcga ctctagagtc gacctgcaga agcttggccg 1700
 ccatggccca acttgtttat tgcagcttat aatggttaca aat 1743

<210> 2
 <211> 295
 <212> PRT
 <213> Homo sapiens

<400> 2

Met 1	Thr	Asp	Ser	Pro 5	Pro	Pro	Gly	His	Pro 10	Glu	Glu	Lys	Ala	Thr 15
Pro	Pro	Gly	Gly	Thr 20	Gly	His	Glu	Gly	Leu 25	Ser	Gly	Gly	Ala	Ala 30
Asp	Val	Ala	Ser	Gly 35	Val	Gly	Ser	Gly	Arg 40	His	Arg	Ala	Arg	Leu 45
Pro	Ala	Arg	Pro	Leu 50	Gly	Cys	Val	Leu	Ser 55	Arg	Ala	His	Gly	Asp 60
Pro	Val	Ser	Glu	Ser 65	Phe	Val	Gln	Arg	Val 70	Tyr	Gln	Pro	Phe	Leu 75
Thr	Thr	Cys	Asp	Gly 80	His	Arg	Ala	Cys	Ser 85	Thr	Tyr	Arg	Thr	Ile 90
Tyr	Arg	Thr	Ala	Tyr 95	Arg	Arg	Ser	Pro	Gly 100	Leu	Ala	Pro	Ala	Arg 105
Pro	Arg	Tyr	Ala	Cys 110	Cys	Pro	Gly	Trp	Lys 115	Arg	Thr	Ser	Gly	Leu 120
Pro	Gly	Ala	Cys	Gly 125	Ala	Ala	Ile	Cys	Gln 130	Pro	Pro	Cys	Arg	Asn 135
Gly	Gly	Ser	Cys	Val 140	Gln	Pro	Gly	Arg	Cys 145	Arg	Cys	Pro	Ala	Gly 150
Trp	Arg	Gly	Asp	Thr 155	Cys	Gln	Ser	Asp	Val 160	Asp	Glu	Cys	Ser	Ala 165
Arg	Arg	Gly	Gly	Cys 170	Pro	Gln	Arg	Cys	Ile 175	Asn	Thr	Ala	Gly	Ser 180
Tyr	Trp	Cys	Gln	Cys 185	Trp	Glu	Gly	His	Ser 190	Leu	Ser	Ala	Asp	Gly 195
Thr	Leu	Cys	Val	Pro 200	Lys	Gly	Gly	Pro	Pro 205	Arg	Val	Ala	Pro	Asn 210
Pro	Thr	Gly	Val	Asp 215	Ser	Ala	Met	Lys	Glu 220	Glu	Val	Gln	Arg	Leu 225
Gln	Ser	Arg	Val	Asp 230	Leu	Leu	Glu	Glu	Lys 235	Leu	Gln	Leu	Val	Leu 240
Ala	Pro	Leu	His	Ser 245	Leu	Ala	Ser	Gln	Ala 250	Leu	Glu	His	Gly	Leu 255
Pro	Asp	Pro	Gly	Ser 260	Leu	Leu	Val	His	Ser 265	Phe	Gln	Gln	Leu	Gly 270
Arg	Ile	Asp	Ser	Leu 275	Ser	Glu	Gln	Ile	Ser 280	Phe	Leu	Glu	Glu	Gln 285
Leu	Gly	Ser	Cys	Ser	Cys	Lys	Lys	Asp	Ser					